

ABSTRACT OF THE DISCLOSURE

An object is to provide a reactor for  
hydrotreating which exhibits a total desulfurizing  
5 activity higher than that of the reactor according to  
the prior art, and which is reduced in the rate of  
lowering of the desulfurizing activity and therefore  
can keep the high desulfurizing activity over a long  
period, and to provide a process by the use of the  
10 reactor. A reactor for hydrotreating, which comprises  
at least four catalyst layers packed respectively with  
hydrotreating catalysts satisfying the relationship  
represented by the following formulae:  $S_n \leq S_{n+1}$ ,  
 $1.15V_n \geq V_{n+1}$  wherein S represents the surface area  
15 per cubic meter of each hydrotreating catalyst; V  
represents the pore volume per cubic meter of catalyst;  
and wherein n is a natural number representing the  
order of each catalyst layer.

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